

Studying Mean, Median, Mode, and Dispersion

Study how the following sets of numbers compare.

Set 1

1	2	3	4	5	6	7	8	9	10	11
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Set 2

1	1	2	2	3	6	9	10	10	11	11
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Set 3

1	1	1	2	2	6	10	10	11	11	11
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Set 4

5	5	5	5	6	6	6	7	7	7	7
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Set 5

1	1	1	1	1	6	11	11	11	11	11
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Set 6

1	1	1	1	1	7	10	11	11	11	11
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Set 7

[illegible]

Set 8

1	5	5	5	5	6	10	10	10	10	11
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Set 9

1	2	2	2	2	6	10	10	10	10	11
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Set 10

1	5	5	5	5	6	7	7	7	7	11
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Set 11

1	2	3	6	6	6	6	6	9	10	11
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Set 12

1	1	1	6	6	6	6	6	11	11	11
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Find a bar graph and box-and-whisker plot for each set of data.

Find the mean, median, and mode of each set. In addition also locate Quartile 1 and Quartile 3.

Find the standard deviation for each group.

Make a statement about the spread of the data and the change in the value of the standard deviation. Relate the standard deviation to the bar graph of each set of data.